

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2004, 20:03:25 ; Search time 14.5448 Seconds
(without alignment)
1309.751 Million cell updates/sec

Title: US-10-057-510-2

Perfect score: 74

Sequence: 1 ARAYKMFMPMEKAGKWC.....ARLXPCGKVGMDVRRWS 74

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1045404 seqs, 257433775 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA.*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pbp.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pbp.*
- 3: /cgn2_6/ptodata/1/pubpaa/US03_NEW_PUB.pbp.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pbp.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pbp.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pbp.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pbp.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pbp.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pbp.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pbp.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pbp.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pbp.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pbp.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pbp.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pbp.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pbp.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pbp.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pbp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	72	97.3	74	US-10-057-510-2	Sequence 2, Appli
2	72	97.3	74	US-10-156-761-12318	Sequence 12318, A
3	72	97.3	74	US-10-425-114-37580	Sequence 37580, A
4	72	97.3	74	US-09-880-748-1294	Sequence 1294, Ap
5	72	97.3	74	US-10-424-599-175122	Sequence 175122, A
6	72	97.3	74	US-10-425-114-68325	Sequence 68325, A
7	72	97.3	74	US-10-424-599-178575	Sequence 178575, A
8	72	97.3	74	US-10-282-122A-62664	Sequence 62664, A
9	72	97.3	74	US-10-282-122A-64955	Sequence 64955, A
10	72	97.3	74	US-10-282-122A-46886	Sequence 46886, A
11	72	97.3	74	US-10-282-122A-61660	Sequence 61660, A
12	72	97.3	74	US-10-282-122A-46021	Sequence 46021, A
13	72	97.3	74	US-10-369-493-23099	Sequence 23099, A
14	72	97.3	74	US-09-738-626-4343	Sequence 4343, Ap
15	72	97.3	74	US-09-746-660A-118	Sequence 118, App

16	7	9.5	1067	15	US-10-369-493-2079	Sequence 2079, Ap
17	7	9.5	2549	10	US-09-950-634-3	Sequence 3, Appli
18	6	8.1	9	15	US-09-833-447A-87	Sequence 87, Appl
19	6	8.1	9	15	US-10-369-060A-87	Sequence 87, Appl
20	6	8.1	9	15	US-10-608-541-51	Sequence 51, Appl
21	6	8.1	11	9	US-09-839-447A-84	Sequence 84, Appl
22	6	8.1	11	15	US-10-369-060A-84	Sequence 84, Appl
23	6	8.1	11	15	US-10-608-541-48	Sequence 48, Appl
24	6	8.1	12	9	US-09-839-666-8	Sequence 8, Appli
25	6	8.1	12	14	US-10-234-579-8	Sequence 8, Appli
26	6	8.1	15	10	US-09-880-748-2869	Sequence 2869, Ap
27	6	8.1	17	14	US-10-161-791-336	Sequence 336, App
28	6	8.1	26	9	US-09-839-666-15	Sequence 15, Appl
29	6	8.1	26	14	US-10-234-579-15	Sequence 15, Appl
30	6	8.1	34	9	US-09-854-864-7	Sequence 7, Appli
31	6	8.1	45	12	US-10-424-599-207097	Sequence 207097,
32	6	8.1	51	9	US-09-854-864-6	Sequence 6, Appli
33	6	8.1	55	12	US-10-424-599-253941	Sequence 253941,
34	6	8.1	56	12	US-10-424-599-221820	Sequence 221820,
35	6	8.1	58	9	US-09-854-864-21	Sequence 21, Appl
36	6	8.1	66	12	US-10-424-599-209790	Sequence 209790,
37	6	8.1	68	12	US-10-424-599-172231	Sequence 172231,
38	6	8.1	71	12	US-10-424-599-148379	Sequence 148379,
39	6	8.1	81	9	US-09-854-864-13	Sequence 13, Appl
40	6	8.1	83	10	US-09-956-622A-46	Sequence 46, Appl
41	6	8.1	89	12	US-10-424-599-253379	Sequence 253379,
42	6	8.1	103	14	US-10-050-302-282	Sequence 282, App
43	6	8.1	103	14	US-10-050-898-282	Sequence 282, App
44	6	8.1	107	14	US-10-050-902-280	Sequence 280, App
45	6	8.1	107	14	US-10-050-902-281	Sequence 281, App

ALIGNMENTS

RESULT 1

US-10-057-510-2
; Sequence 2, Application US/10057510
; Publication No. US20020098580A1
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Yang, MeiJia
; APPLICANT: Schulz, Vincent
; APPLICANT: Curagen Corporation
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF
; FILE REFERENCE: 15966-524 MDM US
; CURRENT APPLICATION NUMBER: US/10/057,510
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: USSN 09/510,252
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: USSN 60/121,192
; PRIOR FILING DATE: 1999-02-23
; PRIOR APPLICATION NUMBER: USSN 60/122,643
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Any X can be any amino acid.
US-10-057-510-2

Query Match 97.3%; Score 72; DB 13; Length 74;
Best Local Similarity 100.0%; Pred. No. 6.6e-66;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	ARAYKMFMPMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCQLRCSLWVGARLXPC	60
DB	1	ARAYKMFMPMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCQLRCSLWVGARLXPC	60
QY	61	GKVEGMDVRRWS	74

Db 61 GKVEGMDVRRWS 74
|||||

RESULT 2
US-10-156-761-12318
; Sequence 12318, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12318
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12318

Query Match 9.5%; Score 7; DB 14; Length 200;
Best Local Similarity 100.0%; Pred. No. 37; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 PALTAVL 42
|||||
Db 54 PALTAVL 60

RESULT 3
US-10-425-114-37580
; Sequence 37580, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 37580
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LJB3061-031-G10_FLI.pap
US-10-425-114-37580

Query Match 9.5%; Score 7; DB 12; Length 225;
Best Local Similarity 100.0%; Pred. No. 41; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 ALTAVLS 43
|||||
Db 25 ALTAVLS 31

RESULT 4
US-09-880-748-1294
; Sequence 1294, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PF523
; CURRENT APPLICATION NUMBER: US/09/880,748
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1294
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-1294

Query Match 9.5%; Score 7; DB 10; Length 247;
Best Local Similarity 100.0%; Pred. No. 44; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 63 VEGMDVW 69
|||||
Db 108 VEGMDVW 114

RESULT 5
US-10-424-599-175122
; Sequence 175122, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 175122
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_129153C.1.pap
US-10-424-599-175122

Query Match 9.5%; Score 7; DB 12; Length 321;
Best Local Similarity 100.0%; Pred. No. 55; Indels 0; Gaps 0;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 30 PFSIVAP 36
|||||
Db 129 PFSIVAP 135

RESULT 6
US-10-425-114-68325
; Sequence 68325, Application US/10425114

Publication No. US2004003488A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53313)B

CURRENT APPLICATION NUMBER: US/10/425,114

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 73128

SEQ ID NO 68325

LENGTH: 321

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: 700763959_FLI.pep

US-10-425-114-68325

Query Match 9.5%; Score 7; DB 12; Length 321;

Best Local Similarity 100.0%; Pred. No. 55;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 30 PFSIVAP 36

|||||

DB 129 PFSIVAP 135

RESULT 7

US-10-424-599-178575

Sequence 178575, Application US/10424599

Publication No. US20040031072A1

GENERAL INFORMATION:

APPLICANT: La Rosa Thomas J

APPLICANT: Kovalic David K

APPLICANT: Zhou Yihua

APPLICANT: Cao Yongwei

TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53223)B

CURRENT APPLICATION NUMBER: US/10/424,599

CURRENT FILING DATE: 2003-04-28

NUMBER OF SEQ ID NOS: 285684

SEQ ID NO 178575

LENGTH: 362

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

OTHER INFORMATION: Clone ID: PAT_MRT3847_132270C.1.pep

US-10-424-599-178575

Query Match

Best Local Similarity 9.5%; Score 7; DB 12; Length 362;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 37 ALTAVLS 43

|||||

DB 98 ALTAVLS 104

RESULT 8

US-10-282-122A-62664

Sequence 62664, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 78614

SOFTWARE: PatentIn version 3.1

SEQ ID NO 62664

LENGTH: 434

TYPE: PRT

ORGANISM: Mycobacterium bovis

US-10-282-122A-62664

Query Match

Best Local Similarity 9.5%; Score 7; DB 12; Length 434;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44

|||||

DB 271 LTAVLSC 277

RESULT 9

US-10-282-122A-64955

Sequence 64955, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64955
; LENGTH: 434
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64955

Query Match 9.5%; Score 7; DB 12; Length 434;
Best Local Similarity 100.0%; Pred. No. 71;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44
Db 271 LTAVLSC 277

RESULT 10

US-10-282-122A-46886
; Sequence 46886, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64955
; LENGTH: 434
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis

; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46886
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Bacillus anthracis
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (182)..(182)
; OTHER INFORMATION: X-any amino acid
US-10-282-122A-46886

Query Match 9.5%; Score 7; DB 12; Length 447;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 38 LTAVLSC 44
Db 286 LTAVLSC 292

RESULT 11

US-10-282-122A-61660
; Sequence 61660, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61660
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Mycobacterium avium

US-10-282-122A-61660

Query Match 9.5%; Score 7; DB 12; Length 451;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 LTAVLSC 44
Db 290 LTAVLSC 296
|||||

RESULT 12

US-10-282-122A-46021
Sequence 46021, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Olsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 78514

SOFTWARE: PatentIn version 3.1

SEQ ID NO 46021

LENGTH: 464

TYPE: PRT

ORGANISM: Bacillus anthracis

US-10-282-122A-46021

Query Match 9.5%; Score 7; DB 12; Length 464;
Best Local Similarity 100.0%; Pred. No. 75;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 LTAVLSC 44
Db 288 LTAVLSC 294
|||||

RESULT 13

US-10-369-493-23099

Sequence 23099, Application US/10369493

Publication No. US20030233675A1

GENERAL INFORMATION:

APPLICANT: Cao, Yongwei

APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.

APPLICANT: Goldman, Barry S.

APPLICANT: Chen, Xianfeng

TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

FILE REFERENCE: 38-10(52052)B

CURRENT APPLICATION NUMBER: US/10/369,493

CURRENT FILING DATE: 2003-02-28

PRIOR APPLICATION NUMBER: US 60/360,039

PRIOR FILING DATE: 2002-02-21

NUMBER OF SEQ ID NOS: 47374

SEQ ID NO 23099

LENGTH: 469

TYPE: PRT

ORGANISM: Bacillus subtilis

US-10-369-493-23099

Query Match 9.5%; Score 7; DB 15; Length 469;
Best Local Similarity 100.0%; Pred. No. 76;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 38 LTAVLSC 44
Db 291 LTAVLSC 297
|||||

RESULT 14

US-09-738-626-4343

Sequence 4343, Application US/09738626

Publication No. US20020197605A1

GENERAL INFORMATION:

APPLICANT: NAKAGAWA, SATOSHI

APPLICANT: MIZOGUCHI, HIROSHI

APPLICANT: ANDO, SEIKO

APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIAI, KEIKO

APPLICANT: YOKOI, HARUHIKO

APPLICANT: TATEISHI, NAKO

APPLICANT: SENOH, AKIHIRO

APPLICANT: IKEDA, MASATO

APPLICANT: OZAKI, AKIO

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

FILE REFERENCE: 249-125

CURRENT APPLICATION NUMBER: US/09/738,626

CURRENT FILING DATE: 2000-12-18

PRIOR APPLICATION NUMBER: JP 99/377484

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: JP 00/159162

PRIOR FILING DATE: 2000-04-07

PRIOR APPLICATION NUMBER: JP 00/280988

PRIOR FILING DATE: 2000-08-03

NUMBER OF SEQ ID NOS: 7059

SOFTWARE: PatentIn ver. 3.0

SEQ ID NO 4343

LENGTH: 568

TYPE: PRT

ORGANISM: Corynebacterium glutamicum

US-09-738-626-4343

Query Match 9.5%; Score 7; DB 9; Length 568;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 ALTAVL 43
Db 10 ALTAVL 16
|||||

RESULT 15

US-09-746-660A-118
 ; Sequence 118, Application US/09746660A
 ; Publication No. US20030049804A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Pompeius, Markus
 ; APPLICANT: Kroger, Burkhard
 ; APPLICANT: Schroder, Hartwig
 ; APPLICANT: Zelder, Oskar
 ; APPLICANT: Habernauer, Gregor
 ; APPLICANT: Kim, Jun-Won
 ; APPLICANT: Lee, Heung-Schick
 ; APPLICANT: Hwang, Byung-Joon
 ; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
 ; FILE REFERENCE: BGI-121CP2
 ; CURRENT APPLICATION NUMBER: US/09/746,660A
 ; CURRENT FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 09/606740
 ; PRIOR FILING DATE: 2000-06-23
 ; PRIOR APPLICATION NUMBER: 09/603124
 ; PRIOR FILING DATE: 2000-06-23
 ; PRIOR APPLICATION NUMBER: 60/141031
 ; PRIOR FILING DATE: 1999-06-25
 ; PRIOR APPLICATION NUMBER: 60/142101
 ; PRIOR FILING DATE: 1999-07-02
 ; PRIOR APPLICATION NUMBER: 60/148613
 ; PRIOR FILING DATE: 1999-08-12
 ; PRIOR APPLICATION NUMBER: 60/187970
 ; PRIOR FILING DATE: 2000-03-09
 ; PRIOR APPLICATION NUMBER: DE 19931420.9
 ; PRIOR FILING DATE: 1999-07-08
 ; NUMBER OF SEQ ID NOS: 125
 ; SOFTWARE: PatentIn Vers. 2.0
 ; SEQ ID NO 118
 ; TYPE: PRT
 ; LENGTH: 568
 ; ORGANISM: Corynebacterium glutamicum
 US-09-746-660A-118

Query Match 9.5%; Score 7; DB 10; Length 568;
 Best Local Similarity 100.0%; Pred. No. 89;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 37 ALTAVL 43
 Db 10 ALTAVL 16

Search completed: March 17, 2004, 20:08:59
 Job time : 15.5448 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2004, 20:02:05 ; Search time 14.0345 Seconds
(without alignment)
1357.378 Million cell updates/sec

Title: US-10-057-510-2

Perfect score: 398

Sequence: 1 ARAYKMFMEKAGKWC.....ARLXPCGRVGVMDVRRWS 74

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	394	99.0	74	13	US-10-057-510-2
2	70.5	17.7	48	12	Sequence 2, Appli
3	69	17.3	1032	15	Sequence 248433,
4	69	17.3	1032	15	Sequence 16, Appl
5	65.5	16.5	142	15	Sequence 64, Appl
6	65.5	16.5	383	13	Sequence 1973, Ap
7	65.5	16.5	383	13	Sequence 410, Appl
8	64	16.1	104	12	Sequence 40, Appl
9	62.5	15.7	331	12	Sequence 188820,
10	61.5	15.5	330	15	Sequence 309, App
11	61.5	15.5	504	15	Sequence 1366, Ap
12	61.5	15.5	703	15	Sequence 3872, Ap
13	61.5	15.5	760	15	Sequence 4545, Ap
14	60.5	15.2	439	9	Sequence 1367, Ap
15	60.5	15.2	439	10	Sequence 12, Appl
					Sequence 14, Appl

16	60.5	15.2	439	12	US-10-343-359-7	Sequence 7, Appli
17	60.5	15.2	439	12	US-10-343-369-12	Sequence 12, Appl
18	60	15.1	275	12	US-10-424-599-244478	Sequence 244478,
19	60	15.1	514	15	US-10-369-493-8445	Sequence 8445, Ap
20	59.5	14.9	125	12	US-10-425-114-41921	Sequence 41921, A
21	59	14.8	58	12	US-10-424-599-225406	Sequence 225406,
22	58.5	14.7	224	9	US-09-989-920-274	Sequence 274, App
23	58.5	14.7	224	15	US-10-465-572-4	Sequence 4, Appli
24	58.5	14.7	1752	15	US-10-116-275-205	Sequence 205, App
25	58.5	14.7	1752	15	US-10-295-027-360	Sequence 360, App
26	58.5	14.7	1822	15	US-10-295-027-1254	Sequence 1254, Ap
27	58	14.6	130	9	US-09-908-805B-29	Sequence 29, Appl
28	58	14.6	178	12	US-10-424-599-248230	Sequence 248230,
29	57.5	14.4	338	13	US-10-042-417-12	Sequence 12, Appl
30	57.5	14.4	509	14	US-10-156-761-7900	Sequence 7900, Ap
31	57	14.3	295	12	US-10-424-599-183485	Sequence 183485,
32	57	14.3	310	12	US-10-389-647-548	Sequence 548, App
33	56.5	14.2	151	12	US-10-424-599-276840	Sequence 276840,
34	56.5	14.2	252	12	US-10-282-122A-49345	Sequence 49345, A
35	56.5	14.2	385	12	US-10-424-599-178584	Sequence 178584,
36	56	14.1	146	12	US-10-425-114-49716	Sequence 49716, A
37	56	14.1	149	12	US-10-424-599-176646	Sequence 176646,
38	56	14.1	194	14	US-10-017-161-262	Sequence 262, App
39	56	14.1	194	15	US-10-292-798-232	Sequence 232, App
40	56	14.1	303	12	US-10-282-122A-62804	Sequence 62804, A
41	56	14.1	312	12	US-10-282-122A-64448	Sequence 64448, A
42	56	14.1	553	14	US-10-225-567A-520	Sequence 520, App
43	56	14.1	654	15	US-10-369-493-5059	Sequence 5059, App
44	56	14.1	772	9	US-09-909-320-339	Sequence 339, App
45	56	14.1	772	9	US-09-909-088B-339	Sequence 339, App

ALIGNMENTS

RESULT 1

US-10-057-510-2
; Sequence 2, Application US/10057510
; Publication No. US20020098580A1
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Yang, Meijia
; APPLICANT: Schulz, Vincent
; APPLICANT: Curagen Corporation
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF
; FILE REFERENCE: 15966-524 MDM US
; CURRENT APPLICATION NUMBER: US/10/057,510
; CURRENT FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: USSN 09/510,252
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: USSN 60/121,192
; PRIOR FILING DATE: 1999-02-23
; PRIOR APPLICATION NUMBER: USSN 60/122,643
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Any X can be any amino acid.

US-10-057-510-2

Query Match 99.0%; Score 394; DB 13; Length 74;
Best Local Similarity 100.0%; Pred. No. 2.3e-41;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCOLRCSLWLVGARLXPC 60
DB 1 ARAYKMFMEKAGKWCMPKLIIDTPPSIVAPALTAVLSCOLRCSLWLVGARLXPC 60
QY 61 GKVEGMDVRRWS 74

```
Db      61 GKVEGMDVWRMS 74
|||||
RESULT 2
US-10-424-599-248433
; Sequence 248433, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 248433
; LENGTH: 48
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURES:
; OTHER INFORMATION: Clone ID: PAT_WRT3847_66365C.1.pap
US-10-424-599-248433
Query Match      17.7%; Score 70.5; DB 12; Length 48;
Best Local Similarity 32.1%; Pred. No. 0.25;
Matches 17; Conservative 7; Mismatches 22; Indels 7; Gaps 1;

Qy      19 WCKMPKLIIDTPPSIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVWR 71
      | : : : : | | | | | | | | | | | | | | | | | | | | | |
Db      2 WPLLRSVLSRPFCVAVVLEVALSCLRLSLICIGRFVLAC-----VWAR 47

RESULT 3
US-09-733-643-16
; Sequence 16, Application US/09733643
; Publication No. US20030115627A1
; GENERAL INFORMATION:
; APPLICANT: Laroche, Andre J.
; APPLICANT: Huang, Timothy Y.
; APPLICANT: Frick, Michele M.
; APPLICANT: Lu, Zhen-Xiang
; APPLICANT: Huang, Hung Chang
; APPLICANT: Cheng, Kuo Joan
; TITLE OF INVENTION: Coniothyrium minitans beta-(1,3) exoglucanase gene
; TITLE OF INVENTION: cbeg1
; FILE REFERENCE: 24014US1
; CURRENT APPLICATION NUMBER: US/09/733,643
; CURRENT FILING DATE: 2000-12-08
; PRIOR APPLICATION NUMBER: US 60/170,168
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Trichoderma harzianum
; FEATURES:
; OTHER INFORMATION: Trexo
US-09-733-643-16
Query Match      17.3%; Score 69; DB 10; Length 1032;
Best Local Similarity 32.2%; Pred. No. 9.3;
Matches 19; Conservative 7; Mismatches 21; Indels 12; Gaps 3;

Qy      12 MEKAGKWCWKMPKLIIDTPP-SIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVW 69
      | : | : | | | | | | | | | | | | | | | | | | | | |
Db      864 VEYSGEWC-----DTKFQGGGPGASDGSQAQCTWTCS----GAPQTCGGPNRLDVY 911

RESULT 4
US-10-120-801-64
; Sequence 64, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Halyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 60/286068
; PRIOR FILING DATE: 2001-04-24
; PRIOR APPLICATION NUMBER: 60/286292
; PRIOR FILING DATE: 2001-04-25
; PRIOR APPLICATION NUMBER: 60/288334
; PRIOR FILING DATE: 2001-05-03
; PRIOR APPLICATION NUMBER: 60/291241
; PRIOR FILING DATE: 2001-05-16
; PRIOR APPLICATION NUMBER: 60/322284
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 60/285609
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 155
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 64
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Trichoderma harzianus
US-10-120-801-64
Query Match      17.3%; Score 69; DB 15; Length 1032;
Best Local Similarity 32.2%; Pred. No. 9.3;
Matches 19; Conservative 7; Mismatches 21; Indels 12; Gaps 3;

Qy      12 MEKAGKWCWKMPKLIIDTPP-SIVAPALTAVLSQRLCSLWLVGARLXPCGKVEGMDVW 69
      | : | : | | | | | | | | | | | | | | | | | | | | |
Db      864 VEYSGEWC-----DTKFQGGGPGASDGSQAQCTWTCS----GAPQTCGGPNRLDVY 911

RESULT 5
US-10-094-749-1973
; Sequence 1973, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
US-10-094-749-1973
; Sequence 1973, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
```


APPLICANT: YOSHIKAWA, TSUTOMU
APPLICANT: OTSUKA, MOTOKI
APPLICANT: NAGAHARI, KENJI
APPLICANT: MASUHO, YASUHIKO
TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA
FILE REFERENCE: 084335/0160
CURRENT APPLICATION NUMBER: US/10/094,749
CURRENT FILING DATE: 2002-03-12
PRIOR APPLICATION NUMBER: 60/350,435
PRIOR FILING DATE: 2002-01-24
PRIOR APPLICATION NUMBER: JP 2001-328381
PRIOR FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 3381
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1973
LENGTH: 142
TYPE: PRT
ORGANISM: Homo sapiens
US-10-094-749-1973

Query Match 16.5%; Score 65.5; DB 15; Length 142;
Best Local Similarity 30.3%; Pred. No. 3.2; Mismatches 9; Indels 15; Gaps 4;
Matches 20; Conservative 9; Mismatches 9; Indels 15; Gaps 4;

QY 19 WCKMPKLIIDTPFSI--VAPAL-----TAVLSQRLCSLWLVGARLXPCGVKGVMDV-- 68
DB 2 WALMPRRFTVWPLKLCNISPLGPGTGTGTSVLP---PCLWIRALRPATWLCLEGMECDV 58

QY 69 --WRRR 72
DB 59 GGWRRR 64

RESULT 6
US-09-759-1308-410
Sequence 410, Application US/09759130B
Publication No. US20030022279A1
GENERAL INFORMATION:
APPLICANT: Millennium Pharmaceuticals, Inc.
APPLICANT: McCarthy, Sean A
APPLICANT: Fraser, Christopher C
APPLICANT: Sharp, John D
APPLICANT: Barnes, Thomas S
APPLICANT: Kirst, Susan J
APPLICANT: Mackay, Charles R
APPLICANT: Myers, Paul S
APPLICANT: Leiby, Kevin R
APPLICANT: Wrighton, Nicolas
APPLICANT: Goodearl, Andrew
APPLICANT: Holtzman, Douglas A
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
TITLE OF INVENTION: PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
TITLE OF INVENTION: USES.
FILE REFERENCE: MP100-5350NNIM
CURRENT APPLICATION NUMBER: US/09/759,130B
CURRENT FILING DATE: 2002-09-16
PRIOR APPLICATION NUMBER: US 09/479,249
PRIOR FILING DATE: 2000-01-07
PRIOR APPLICATION NUMBER: US 09/559,497
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: US 09/578,063
PRIOR FILING DATE: 2000-05-24
PRIOR APPLICATION NUMBER: US 09/333,159
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: US 09/596,194
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: US 09/342,364
PRIOR FILING DATE: 1999-06-29
PRIOR APPLICATION NUMBER: US 09/608,452
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/393,996
PRIOR FILING DATE: 1999-09-10
PRIOR APPLICATION NUMBER: US 09/602,871

PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 09/420,707
PRIOR FILING DATE: 1999-10-19
NUMBER OF SEQ ID NOS: 460
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 410
LENGTH: 383
TYPE: PRT
ORGANISM: Homo sapiens
US-09-759-1308-410

Query Match 16.5%; Score 65.5; DB 10; Length 383;
Best Local Similarity 30.2%; Pred. No. 9;
Matches 13; Conservative 8; Mismatches 19; Indels 3; Gaps 1;

QY 18 CWCKMPKLIIDTPFSIVAPALTAVLSQRLCSLWLVGARLXPC 60
DB 185 CWCLSVVLMFLPHNAYKSILATGISCILACLVYLL---LSPC 224

RESULT 7
US-10-042-431-40
Sequence 40, Application US/10042431
Publication No. US20020182675A1
GENERAL INFORMATION:
APPLICANT: MCCARTHY, Sean A
APPLICANT: BARNES, Thomas M
APPLICANT: FRASER, Christopher C
APPLICANT: SHARP, John D
TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING DIAGNOSTIC,
TITLE OF INVENTION: PREVENTIVE, THERAPEUTIC, AND OTHER USES
FILE REFERENCE: 10147-6U2
CURRENT APPLICATION NUMBER: US/10/042,431
CURRENT FILING DATE: 2001-10-25
PRIOR APPLICATION NUMBER: US 09/333,159
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: US 09/578,063
PRIOR FILING DATE: 2000-05-24
NUMBER OF SEQ ID NOS: 79
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 40
LENGTH: 383
TYPE: PRT
ORGANISM: Caenorhabditis elegans
US-10-042-431-40

Query Match 16.5%; Score 65.5; DB 13; Length 383;
Best Local Similarity 30.2%; Pred. No. 9;
Matches 13; Conservative 8; Mismatches 19; Indels 3; Gaps 1;

QY 18 CWCKMPKLIIDTPFSIVAPALTAVLSQRLCSLWLVGARLXPC 60
DB 185 CWCLSVVLMFLPHNAYKSILATGISCILACLVYLL---LSPC 224

RESULT 8
US-10-424-599-188820
Sequence 188820, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223) B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 188820
LENGTH: 104
TYPE: PRT

* ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(104)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_141519C.1.pap
US-10-424-599-188820

Query Match 16.1%; Score 64; DB 12; Length 104;
Best Local Similarity 30.5%; Pred. No. 3.6;
Matches 18; Conservative 9; Mismatches 20; Indels 12; Gaps 3;

Qy 23 PKLIIDTPF-----SIVA-PALTAVL-----SQLRCSLWLYCARLXPCKVGEQMDVW 69
Db 8 PLCVWASFFFRVSVAACVLSCLACRLACSCRIRAPCWGCVLSCGRSLGACLV 66

RESULT 9
US-10-351-334-309
; Sequence 309, Application US/10351334
; Publication No. US20040034196A1
; GENERAL INFORMATION:
; APPLICANT: Komatsoulis et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P2
; CURRENT APPLICATION NUMBER: US/10/351,334
; CURRENT FILING DATE: 2003-01-27
; PRIOR APPLICATION NUMBER: 60/350,898
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: 09/489,847
; PRIOR FILING DATE: 2000-01-24
; PRIOR APPLICATION NUMBER: PCT/US99/17130
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: 60/094,657
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: 60/095,486
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/096,319
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: 60/095,454
; PRIOR FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: 60/095,455
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 309
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-334-309

Query Match 15.7%; Score 62.5; DB 12; Length 331;
Best Local Similarity 30.8%; Pred. No. 18;
Matches 16; Conservative 13; Mismatches 14; Indels 9; Gaps 2;

Qy 21 KMPKLIIDTPPSIVAPALTAVLSQLRCSLWLYCARLXPCKVGEQMDVWR 72
Db 53 ELPENILLELTHV-PARQLINCLVGLWR-----DLIDLMTLWKRK 95

RESULT 10
US-10-295-027-1366
; Sequence 1366, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.

; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1366
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-1366

Query Match 15.5%; Score 61.5; DB 15; Length 330;
Best Local Similarity 28.2%; Pred. No. 24;
Matches 20; Conservative 13; Mismatches 27; Indels 11; Gaps 5;

Qy 4 YXQMFNFM--EKAGKWCWKPKLIIDTPPSIVAPALTAVLSQLRCSLWLYCARLXP-- 59
Db 134 YSKNISLWNNFQPPSKAW-RASQMTFFIFLLFPSPFTGVL-CTLAITW----RLKPSA 187

Qy 60 -CGKVEGMDVW 69
Db 188 DCGPFRGLPLF 198

RESULT 11
US-10-104-047-3872
; Sequence 3872, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1el full length cDNA
; FILE REFERENCE: HI-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3872
; LENGTH: 504
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-3872

Query Match 15.5%; Score 61.5; DB 15; Length 504;
Best Local Similarity 28.2%; Pred. No. 38;
Matches 20; Conservative 13; Mismatches 27; Indels 11; Gaps 5;

```

Qy 4 YXKMFSMFM--BKAGKCWCKMFKLIIDTPFSSIVAPALTAVLSCOLRCSLWLVGARLXP-- 59
Db 308 YSKNISLWMNFQPPSKAW-RASQMMTPFIILLFFPSTGVL-CTLATTIW---RLKPSA 361

Qy 60 -CGKVEGMDVW 69
Db 362 DCGPFRGLPLF 372

RESULT 12
US-10-108-260A-4545
; Sequence 4545, Application US/10108260A
; Publication No. US20040005360A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20040005560A1el full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4545
; LENGTH: 703
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-4545

Query Match 15.5%; Score 61.5; DB 15; Length 703;
Best Local Similarity 28.2%; Pzed: No. 53;
Matches 20; Conservative 13; Mismatches 27; Indels 11; Gaps 5

Qy 4 YXKMFSMFM--BKAGKCWCKMFKLIIDTPFSSIVAPALTAVLSCOLRCSLWLVGARLXP-- 59
Db 564 YSKNISLWMNFQPPSKAW-RASQMMTPFIILLFFPSTGVL-CTLATTIW---RLKPSA 617

Qy 60 -CGKVEGMDVW 69
Db 618 DCGPFRGLPLF 628

RESULT 13
US-10-295-027-1367
; Sequence 1367, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynnne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14

```

```

; CURRENT APPLICATION NUMBER: US/09/557,796
; CURRENT FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/172,952
; PRIOR FILING DATE: 1998-10-14
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 439
; TYPE: PRT
; ORGANISM: Y14x2
US-09-557-796-14

```

Query Match 15.2%; Score 60.5; DB 10; Length 439;
Best Local Similarity 32.7%; Pred. No. 43;
Matches 18; Conservative 8; Mismatches 22; Indels 7; Gaps 2;

Qy 7 MFSEMFKEKAGCKWKMPKLIIIDTPPSIVAPALTAVLSQQLRCSLWLVGARLP CG 61
:
:
:
Dd 296 LFPSSISDRTGK-----RKLFVCLP--LIGFALCMFLSVALKNQIWLVSVAALVGCG 343
:
:
:

Search completed: March 17, 2004, 20:07:42
Job time : 15.0345 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2004, 20:03:25 ; Search time 42,4552 Seconds
(without alignments)
1309.751 Million cell updates/sec

Title: US-10-057-510-4

Perfect score: 216

Sequence: 1 MONTNMSVPTDGAVTTSQIP.....ALCVIREICRSSSSSTG 216

Scoring table: OLIGO
Gap 60.0 , Gapext 60.0

Searched: 1045404 seqs, 257433775 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 10: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 11: /cgn2_6/prodata/1/pubpaa/US09_PUBCOMB.pep.*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep.*
- 14: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep.*
- 15: /cgn2_6/prodata/1/pubpaa/US10_PUBCOMB.pep.*
- 16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	216	100.0	216	13	US-10-057-510-4
2	159	73.6	491	9	US-09-888-077-1
3	159	73.6	491	9	US-09-888-077-1
4	159	73.6	491	10	US-09-888-077-1
5	159	73.6	491	12	US-09-888-077-1
6	159	73.6	491	15	US-09-888-077-1
7	159	73.6	491	15	US-09-888-077-1
8	29	13.4	489	9	US-09-888-077-1
9	8	3.7	95	9	US-09-888-077-1
10	8	3.7	95	9	US-09-888-077-1
11	8	3.7	95	9	US-09-888-077-1
12	8	3.7	876	13	US-10-078-929-206
13	8	3.7	876	16	US-10-389-566-2043
14	8	3.7	876	16	US-10-389-566-2043
15	8	3.7	910	16	US-10-389-566-2431

16	7	3.2	8	12	US-10-609-217-523	Sequence 523, App
17	7	3.2	12	12	US-10-609-217-517	Sequence 517, App
18	7	3.2	12	12	US-10-609-217-517	Sequence 520, App
19	7	3.2	12	12	US-10-609-217-587	Sequence 587, App
20	7	3.2	12	12	US-10-609-217-589	Sequence 589, App
21	7	3.2	13	12	US-10-609-217-586	Sequence 586, App
22	7	3.2	18	12	US-10-232-410-9	Sequence 9, Appli
23	7	3.2	20	9	US-09-865-553-2	Sequence 2, Appli
24	7	3.2	42	12	US-10-351-334-223	Sequence 223, App
25	7	3.2	49	9	US-09-864-761-41464	Sequence 41464, A
26	7	3.2	56	9	US-09-864-761-35082	Sequence 35082, A
27	7	3.2	56	12	US-10-351-334-376	Sequence 376, App
28	7	3.2	85	12	US-10-424-599-238919	Sequence 238919,
29	7	3.2	87	12	US-10-424-599-205364	Sequence 205364,
30	7	3.2	95	9	US-09-956-425-19	Sequence 19, Appl
31	7	3.2	95	9	US-09-956-425-20	Sequence 20, Appl
32	7	3.2	111	12	US-10-424-599-160053	Sequence 160053,
33	7	3.2	123	12	US-10-424-599-202275	Sequence 202275,
34	7	3.2	128	12	US-10-424-599-267725	Sequence 267725,
35	7	3.2	128	12	US-10-425-114-42724	Sequence 42724, A
36	7	3.2	133	12	US-10-424-599-202331	Sequence 202331,
37	7	3.2	137	12	US-10-412-699B-904	Sequence 904, App
38	7	3.2	141	12	US-10-425-114-37238	Sequence 37238, A
39	7	3.2	142	14	US-10-156-761-10181	Sequence 10181, A
40	7	3.2	150	10	US-09-847-208-106	Sequence 106, App
41	7	3.2	158	12	US-10-425-114-49524	Sequence 49524, A
42	7	3.2	160	9	US-09-798-042-100	Sequence 100, App
43	7	3.2	161	9	US-09-798-042-106	Sequence 106, App
44	7	3.2	164	12	US-10-424-599-272091	Sequence 272091,
45	7	3.2	186	12	US-10-424-599-219521	Sequence 219521,

ALIGNMENTS

RESULT 1

US-10-057-510-4
; Sequence 4, Application US/10057510
; Publication No. US20020098580A1
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Yang, Meijia
; APPLICANT: Schulz, Vincent
; APPLICANT: Curagen Corporation
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF
; FILE REFERENCE: 15966-524 MDM US
; CURRENT FILING DATE: 2002-01-25
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: USSN 09/510,252
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: USSN 60/121,192
; PRIOR FILING DATE: 1999-02-23
; PRIOR APPLICATION NUMBER: USSN 60/122,643
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn-Ver. 2.0
; SEQ ID NO 4
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-057-510-4

Query Match 100.0%; Score 216; DB 13; Length 216;
Best Local Similarity 100.0%; Pred. No. 3e-195; Indels 0; Gaps 0;
Matches 216; Conservative 0; Mismatches 0;

QY 1 MONTNMSVPTDGAVTTSQIPASEQETLVVRPKLLKLLKSVGAKDVTYMKVFLVQYI 60

DB 1 MONTNMSVPTDGAVTTSQIPASEQETLVVRPKLLKLLKSVGAKDVTYMKVFLVQYI 60

QY 61 MTKRLYDEKQKHIVCYCNSDGLDGLFQVPSFVKEHKHKTITMYRNLYVNVNQESSDGTG 120

DB 61 MTKRLYDEKQKHIVCYCNSDGLDGLFQVPSFVKEHKHKTITMYRNLYVNVNQESSDGTG 120

Qy 121 VSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSEGR 180
Db 121 VSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSEGR 180
Qy 181 KRHKSDSISLSDLSLALCVIREICCRSSSESTG 216
Db 181 KRHKSDSISLSDLSLALCVIREICCRSSSESTG 216

RESULT 2

US-09-888-077-1

; Sequence 1, Application US/09888077
; Patent No. US20020031818A1
; GENERAL INFORMATION:
; APPLICANT: Ronai, Ze'ev
; APPLICANT: Fuchs, Serge
; TITLE OF INVENTION: Modification of Mdm2 Activity
; FILE REFERENCE: 2420/1H195-US1
; CURRENT APPLICATION NUMBER: US/09/888,077
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,343
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-077-1

Query Match 73.6%; Score 159; DB 9; Length 491;
Best Local Similarity 100.0%; Pred. No. 3.2e-141;
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 117
Db 59 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 118
Qy 118 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 177
Db 119 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 178
Qy 178 RQRKRKSDSISLSDLSLALCVIREICCRSSSESTG 216
Db 179 RQRKRKSDSISLSDLSLALCVIREICCRSSSESTG 217

RESULT 3

US-09-956-425-8
; Sequence 8, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Aif and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-956-425-8

Query Match 73.6%; Score 159; DB 9; Length 491;
Best Local Similarity 100.0%; Pred. No. 3.2e-141;
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 117

Db 59 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 118
Qy 118 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 177
Db 119 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 178
Qy 178 RQRKRKSDSISLSDLSLALCVIREICCRSSSESTG 216
Db 179 RQRKRKSDSISLSDLSLALCVIREICCRSSSESTG 217

RESULT 4

US-09-029-327-2

; Sequence 2, Application US/09029327
; Publication No. US20030060432A1
; GENERAL INFORMATION:
; APPLICANT: TOCQUE, Bruno
; APPLICANT: WASLYK, Bohdan
; APPLICANT: DUBS-POTERSZMAN,
; APPLICANT: Marie-Christine
; TITLE OF INVENTION: ANTAGONISTS OF THE ONCOGENIC ACTIVITY OF
; TITLE OF INVENTION: THE PROTEIN MDM2, AND USE THEREOF IN THE TREATMENT OF
; TITLE OF INVENTION: CANCERS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/029,327
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 96/01340
; FILING DATE: 02-SEP-1996
; PRIOR APPLICATION DATA: WO FR95/10331
; APPLICATION NUMBER: WO FR95/10331
; FILING DATE: 04-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fehlner Esq., Paul F.
; REGISTRATION NUMBER: 35,135
; REFERENCE/DOCKET NUMBER: ST95050-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-029-327-2

Query Match 73.6%; Score 159; DB 10; Length 491;
Best Local Similarity 100.0%; Pred. No. 3.2e-141;
Matches 159; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 58 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 117
Db 59 QYIMTKRLYDEKQOHIVVCSNDLLGDLFGVPSFVKEHRKIYTIYRNLVVNNQESSDS 118
Qy 118 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 177
Db 119 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISETTEENSDELSE 178

QY 178 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
Db 179 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 5

US-10-232-951-35
; Sequence 35, Application US/10232951
; Publication No. US20040043386A1
; GENERAL INFORMATION:
; APPLICANT: Pray, Todd
; APPLICANT: Wong, Brian
; APPLICANT: Bennett, Mark
; APPLICANT: Parlati, Francesco
; APPLICANT: Rigel Pharmaceuticals, Incorporated
; TITLE OF INVENTION: Methods and Compositions for Functional Ubiquitin
; FILE OF INVENTION: Assays
; TITLE OF INVENTION: Assays
; CURRENT APPLICATION NUMBER: US/10/232,951
; CURRENT FILING DATE: 2002-08-30
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: E3 ubiquitin ligating agent mouse double minute 2
; OTHER INFORMATION: (mdm2) homolog full length protein isoform, mouse
; OTHER INFORMATION: p53-binding protein (MDM2) homolog, transcript
; OTHER INFORMATION: variant MDM2, transformed 3T3 cell double minute 2,
; OTHER INFORMATION: Mdm2 cDNA
US-10-232-951-35

Query Match 73.6%; Score 159; DB 12; Length 491;
Best Local Similarity 100.0%; Pred. No. 3.2e-141; Indels 0; Gaps 0;
Matches 159; Conservative 0; Mismatches 0;
QY 58 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIYTMIVRNLVVNVNQESSDS 117
Db 59 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIYTMIVRNLVVNVNQESSDS 118
QY 118 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 177
Db 119 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 178
QY 178 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
Db 179 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 6

US-10-422-536-137
; Sequence 137, Application US/10422536
; Publication No. US20040014100A1
; GENERAL INFORMATION:
; APPLICANT: Kinsella, Todd
; APPLICANT: Lorens, James
; APPLICANT: Pray, Todd
; APPLICANT: Bennett, Mark
; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR INHIBITING
; TITLE OF INVENTION: PROTEIN-PROTEIN INTERACTION
; FILE REFERENCE: A-71433-1/AMP/CYO
; CURRENT APPLICATION NUMBER: US/10/422,536
; CURRENT FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: US 60/187,130
; PRIOR FILING DATE: 2000-03-06
; PRIOR APPLICATION NUMBER: US 09/800,770
; PRIOR FILING DATE: 2001-03-06
; PRIOR APPLICATION NUMBER: US 10/232,758
; PRIOR FILING DATE: 2002-08-30
; NUMBER OF SEQ ID NOS: 168

; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 137
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-422-536-137

Query Match 73.6%; Score 159; DB 15; Length 491;
Best Local Similarity 100.0%; Pred. No. 3.2e-141; Indels 0; Gaps 0;
Matches 159; Conservative 0; Mismatches 0;
QY 58 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIYTMIVRNLVVNVNQESSDS 117
Db 59 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIYTMIVRNLVVNVNQESSDS 118
QY 118 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 177
Db 119 GTSVSENCHLEGGSDQKDLVQELQEKPSHLSVSRPSTSSRRRAISTEENSDELSCG 178
QY 178 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
Db 179 RQRKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 7

US-10-211-088-143
; Sequence 143, Application US/10211088
; Publication No. US20030104479A1
; GENERAL INFORMATION:
; APPLICANT: Bright, Gary R.
; APPLICANT: Premkumar, D. David
; APPLICANT: Chen, Yih-Tai
; TITLE OF INVENTION: No. US20030104479A1el Fusion Proteins And Assays For Molecular Bi:
; FILE REFERENCE: 01-1022-US
; CURRENT APPLICATION NUMBER: US/10/211,088
; CURRENT FILING DATE: 2002-10-15
; PRIOR APPLICATION NUMBER: 60/309,395
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/341,589
; PRIOR FILING DATE: 2001-12-13
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Binding domain
US-10-211-088-143

Query Match 19.4%; Score 42; DB 14; Length 59;
Best Local Similarity 100.0%; Pred. No. 9.1e-32; Indels 0; Gaps 0;
Matches 42; Conservative 0; Mismatches 0;
QY 58 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIY 99
Db 18 QYIMTKRLYDEKQOHIVYCSNDLLGDLFGVPFSPSVKHEHKIY 59

RESULT 8

US-09-956-425-6
; Sequence 6, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kiwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1

```

; SEQ ID NO 6
; LENGTH: 489
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-956-425-6

Query Match      13.4%; Score 29; DB 9; Length 489;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 TSOIPASEQETLVRPKPLLLKLLKSVGAQ 44
DB 16 TSOIPASEQETLVRPKPLLLKLLKSVGAQ 44

RESULT 9
US-09-956-425-18
; Sequence 18, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 95
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-956-425-18

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 SSSSESTG 216
DB 1 SSSSESTG 8

RESULT 10
US-09-956-425-21
; Sequence 21, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 95
; TYPE: PRT
; ORGANISM: horse
US-09-956-425-21

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 SSSSESTG 216
DB 1 SSSSESTG 8

RESULT 11
US-09-956-425-22
; Sequence 22, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 95
; TYPE: PRT
; ORGANISM: dog
US-09-956-425-22

Query Match      3.7%; Score 8; DB 9; Length 95;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 SSSSESTG 216
DB 1 SSSSESTG 8

RESULT 12
US-10-078-929-206
; Sequence 206, Application US/10078929
; Publication No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafaleki, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: BB1357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 206
; LENGTH: 876
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-078-929-206
```


Query Match 3.7%; Score 8; DB 13; Length 876;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29
Db 471 SEQETLVR 478

RESULT 13

US-10-389-566-2043
; Sequence 2043, Application US/10389566
; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
; FILE REFERENCE: 38-77(52900)D
; CURRENT APPLICATION NUMBER: US/10/389,566
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US 60/365,301
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/391,786
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/392,018
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 2459
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2043
; LENGTH: 876
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-389-566-2043

Query Match 3.7%; Score 8; DB 16; Length 876;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29
Db 471 SEQETLVR 478

RESULT 14

US-10-389-566-2176
; Sequence 2176, Application US/10389566
; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
; FILE REFERENCE: 38-77(52900)D
; CURRENT APPLICATION NUMBER: US/10/389,566
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US 60/365,301
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/391,786
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/392,018
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 2459
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2176
; LENGTH: 876
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-389-566-2176

Query Match 3.7%; Score 8; DB 16; Length 876;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29
Db 471 SEQETLVR 478

RESULT 15

US-10-389-566-2431
; Sequence 2431, Application US/10389566
; Publication No. US20040025202A1
; GENERAL INFORMATION:
; APPLICANT: Monsanto Technology, LLC
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants
; FILE REFERENCE: 38-77(52900)D
; CURRENT APPLICATION NUMBER: US/10/389,566
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: US 60/365,301
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/391,786
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: US 60/392,018
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 2459
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2431
; LENGTH: 910
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-389-566-2431

Query Match 3.7%; Score 8; DB 16; Length 910;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 22 SEQETLVR 29
Db 459 SEQETLVR 466

Search completed: March 17, 2004, 20:09:00
Job time : 43.4552 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2004, 20:02:05 ; Search time 40.9655 Seconds

(without alignments)
1357.378 Million cell updates/sec

Title: US-10-057-510-4

Perfect score: 1095

Sequence: 1 MCNTNMSVPTDCAVTTSQIP.....ALCVIREICRSSHSESTG 216

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1045404 seqs, 257433775 residues

Total number of hits satisfying chosen parameters: 1045404

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/CTC_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/CTC_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1095	100.0	216	13	US-10-057-510-4
2	1084.5	99.0	491	9	US-09-888-077-1
3	1084.5	99.0	491	9	US-09-956-425-8
4	1084.5	99.0	491	10	US-09-029-327-2
5	1084.5	99.0	491	12	US-10-232-951-35
6	1084.5	99.0	491	15	US-10-422-536-137
7	804.5	73.5	489	9	US-09-956-425-6
8	297.5	27.2	59	14	US-10-211-088-143
9	127	11.6	251	12	US-10-424-599-269551
10	100	9.1	2184	14	US-10-304-095-6
11	95	8.7	685	12	US-10-424-599-262637
12	93.5	8.5	257	12	US-10-425-114-38125
13	93	8.5	485	11	US-09-833-245-1730
14	93	8.5	485	11	US-09-833-245-1731
15	93	8.5	485	11	US-09-833-245-1732

16	92.5	8.4	433	8	US-08-945-038-6	Sequence 6, Appli
17	91	8.3	551	12	US-10-425-114-50108	Sequence 50108, A
18	90.5	8.3	348	12	US-10-425-114-64733	Sequence 64733, A
19	89.5	8.2	204	12	US-10-424-599-277866	Sequence 277866,
20	89.5	8.2	963	14	US-10-078-531-5	Sequence 5, Appli
21	89	8.1	951	14	US-10-078-531-3	Sequence 3, Appli
22	89	8.1	969	14	US-10-078-531-8	Sequence 8, Appli
23	89	8.1	971	14	US-10-078-531-7	Sequence 7, Appli
24	89	8.1	1008	14	US-10-078-531-2	Sequence 2, Appli
25	88.5	8.1	1215	9	US-09-775-181-2	Sequence 2, Appli
26	88.5	8.1	1215	14	US-10-232-539-2	Sequence 2, Appli
27	88	8.0	438	14	US-10-176-584A-2	Sequence 218036,
28	88	8.0	607	12	US-10-424-599-218036	Sequence 218036,
29	88	8.0	612	12	US-10-425-114-43814	Sequence 43814, A
30	88	8.0	900	12	US-10-282-122A-76473	Sequence 76473, A
31	88	8.0	1170	15	US-10-369-493-4064	Sequence 4064, Ap
32	87.5	8.0	441	14	US-10-043-487-369	Sequence 369, App
33	87.5	8.0	481	15	US-10-104-047-3799	Sequence 3799, Ap
34	87.5	8.0	491	15	US-10-108-260A-4603	Sequence 4603, Ap
35	87.5	8.0	515	10	US-09-315-355-46	Sequence 46, Appl
36	87.5	8.0	545	10	US-09-849-602-25	Sequence 25, Appl
37	87.5	8.0	572	10	US-09-738-630-105	Sequence 105, App
38	87.5	8.0	1047	15	US-10-369-493-2460	Sequence 2460, Ap
39	87	7.9	1781	9	US-09-738-877-3	Sequence 3, Appli
40	87	7.9	1781	10	US-09-961-403-13	Sequence 13, Appl
41	87	7.9	1781	12	US-10-211-482-44	Sequence 44, Appl
42	87	7.9	1781	15	US-10-428-487-16	Sequence 16, Appl
43	86.5	7.9	754	15	US-10-094-749-3133	Sequence 3133, Ap
44	86.5	7.9	768	12	US-10-424-599-262640	Sequence 262640,
45	86.5	7.9	1417	9	US-09-753-143-78	Sequence 78, Appl

ALIGNMENTS

RESULT 1

US-10-057-510-4
; Sequence 4, Application US/10057510
; Publication NO. US20020098580A1
; GENERAL INFORMATION:
; APPLICANT: Nandabalan, Krishnan
; APPLICANT: Yang, Meijia
; APPLICANT: Schulz, Vincent
; APPLICANT: Curagen Corporation
; TITLE OF INVENTION: MDM INTERACTING PROTEIN AND METHODS OF USE THEREOF
; FILE REFERENCE: 15966-524 MDM US
; CURRENT APPLICATION NUMBER: US/10/057,510
; PRIORITY FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: USSN 09/510,252
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: USSN 60/121,192
; PRIOR FILING DATE: 1999-02-23
; PRIOR APPLICATION NUMBER: USSN 60/122,643
; PRIOR FILING DATE: 1999-03-03
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-057-510-4

Query Match 100.0%; Score 1095; DB 13; Length 216;
Best Local Similarity 100.0%; Pred. No. 2.7e-98;
Matches 216; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MCNTNMSVPTDCAVTTSQIPASEQETLVRPKLLKLLKLSVGAKDQTYTWMKEVFLQYI	60
Db	1	MCNTNMSVPTDCAVTTSQIPASEQETLVRPKLLKLLKLSVGAKDQTYTWMKEVFLQYI	60
QY	61	MTKRLYDEKQHQHVYCSNDLLGLDGLFGVPSPFSVKRHKIYTMIRNLVNVNQESSDSGTS	120
Db	61	MTKRLYDEKQHQHVYCSNDLLGLDGLFGVPSPFSVKRHKIYTMIRNLVNVNQESSDSGTS	120

Qy 121 VSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 180
Db 121 VSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 180
Qy 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216

RESULT 2

US-09-888-077-1
; Sequence 1, Application US/09888077
; Patent No. US20020031818A1
; GENERAL INFORMATION:
; APPLICANT: Ronai, Ze'ev
; APPLICANT: Fuchs, Serge
; TITLE OF INVENTION: Modification of Mdm2 Activity
; FILE REFERENCE: 2420/1H195-US1
; CURRENT APPLICATION NUMBER: US/09/888,077
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,343
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-077-1

Query Match 99.0%; Score 1084.5; DB 9; Length 491;
Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;
Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
Db 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKLLKLLKSVGAQKDTYTMKEVLFYL-QY 60
Qy 60 IMTKRLYDEKQOHIVYCSNDLLGDLFGVPSFVKHKKIYTMIRNLVVNNQESSDSGT 119
Db 61 IMTKRLYDEKQOHIVYCSNDLLGDLFGVPSFVKHKKIYTMIRNLVVNNQESSDSGT 120
Qy 120 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 179
Db 121 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 180
Qy 180 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 217

RESULT 3

US-09-956-425-8
; Sequence 8, Application US/09956425
; Patent No. US20020045192A1
; GENERAL INFORMATION:
; APPLICANT: Kriwacki, Richard
; APPLICANT: Bothner, Brian
; APPLICANT: Lewis, William
; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
; FILE REFERENCE: 1340/1/035
; CURRENT APPLICATION NUMBER: US/09/956,425
; CURRENT FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 491
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-956-425-8
Query Match 99.0%; Score 1084.5; DB 9; Length 491;

Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;
Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
Db 1 MCNTNMSVPTDGAVTTSQIPASEQETLVPRPKLLKLLKSVGAQKDTYTMKEVLFYL-QY 60
Qy 60 IMTKRLYDEKQOHIVYCSNDLLGDLFGVPSFVKHKKIYTMIRNLVVNNQESSDSGT 119
Db 61 IMTKRLYDEKQOHIVYCSNDLLGDLFGVPSFVKHKKIYTMIRNLVVNNQESSDSGT 120
Qy 120 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 179
Db 121 SVSENCHLEGGSDQDLVQLQEKPSHLSVSPSTSSRRRAISETEENSDELGERQ 180
Qy 180 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 216
Db 181 KRHKSDSISLSPDESALCVIREICCRSSSSESTG 217

RESULT 4

US-09-029-327-2
; Sequence 2, Application US/09029327
; Publication No. US20030060432A1
; GENERAL INFORMATION:
; APPLICANT: TOCQUE, Bruno
; APPLICANT: WASLYK, Bohdan
; APPLICANT: DUBS-POTERSZMAN,
; APPLICANT: Marie-Christine
; TITLE OF INVENTION: ANTAGONISTS OF THE ONCOGENIC ACTIVITY OF
; TITLE OF INVENTION: THE PROTEIN MDM2, AND USE THEREOF IN THE TREATMENT OF
; TITLE OF INVENTION: CANCERS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/029,327
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 96/01340
; FILING DATE: 02-SEP-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO FR95/10331
; FILING DATE: 04-SEP-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Fehlnert Esq., Paul F.
; REGISTRATION NUMBER: 35,135
; REFERENCE/DOCKET NUMBER: ST95050-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3839
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 491 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-029-327-2

Query Match 99.0%; Score 1084.5; DB 10; Length 491;
Best Local Similarity 99.5%; Pred. No. 9e-97; Mismatches 0; Indels 1; Gaps 1;
Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 5

US-10-232-951-35
 ; Sequence 35, Application US/10232951
 ; Publication No. US20040043386A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Pray, Todd
 ; APPLICANT: Wong, Brian
 ; APPLICANT: Bennett, Mark
 ; APPLICANT: Parlati, Francesco
 ; APPLICANT: Rigel Pharmaceuticals, Incorporated
 ; TITLE OF INVENTION: Methods and Compositions for Functional Ubiquitin
 ; FILE REFERENCE: 021044-006800US
 ; CURRENT APPLICATION NUMBER: US/10/232,951
 ; CURRENT FILING DATE: 2002-08-30
 ; NUMBER OF SEQ ID NOS: 35
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 35
 ; LENGTH: 491
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: E3 ubiquitin ligating agent mouse double minute 2
 ; OTHER INFORMATION: (mdm2) homolog full length protein isoform, mouse
 ; OTHER INFORMATION: p53-binding protein (MDM2) homolog, transcript
 ; OTHER INFORMATION: variant MDM2, transformed 3T3 cell double minute 2,
 ; OTHER INFORMATION: Mdm2 cDNA
 US-10-232-951-35

Query Match 99.0%; Score 1084.5; DB 12; Length 491;
 Best Local Similarity 99.5%; Pred. No. 9e-97;
 Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 6

US-10-422-536-137
 ; Sequence 137, Application US/10422536
 ; Publication No. US20040014100A1
 ; GENERAL INFORMATION:

; APPLICANT: Kinsella, Todd
 ; APPLICANT: Lorens, James
 ; APPLICANT: Pray, Todd
 ; APPLICANT: Bennett, Mark
 ; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR INHIBITING
 ; TITLE OF INVENTION: PROTEIN-PROTEIN INTERACTION
 ; FILE REFERENCE: A-71433-1/AMP/CYO
 ; CURRENT APPLICATION NUMBER: US/10/422,536
 ; CURRENT FILING DATE: 2003-04-23
 ; PRIOR APPLICATION NUMBER: US 60/187,130
 ; PRIOR FILING DATE: 2000-03-06
 ; PRIOR APPLICATION NUMBER: US 09/800,770
 ; PRIOR FILING DATE: 2001-03-06
 ; PRIOR APPLICATION NUMBER: US 10/232,758
 ; PRIOR FILING DATE: 2002-08-30
 ; NUMBER OF SEQ ID NOS: 168
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 137
 ; LENGTH: 491
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-422-536-137

Query Match 99.0%; Score 1084.5; DB 15; Length 491;
 Best Local Similarity 99.5%; Pred. No. 9e-97;
 Matches 216; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
 DB 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYLQY 60
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119
 DB 61 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 120
 QY 120 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 179
 DB 121 SVSENCHLEGGSDQKDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSEGRQ 180
 QY 180 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 216
 DB 181 RKHKSDSISLSPDESIALCVIREICCRSSSESTG 217

RESULT 7

US-09-956-425-6
 ; Sequence 6, Application US/09956425
 ; Patent No. US20020045192A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kriwacki, Richard
 ; APPLICANT: Botner, Brian
 ; APPLICANT: Lewis, William
 ; TITLE OF INVENTION: Arf and Hdm2 Interaction Domains and Method of Use Thereof
 ; FILE REFERENCE: 1340/1/035
 ; CURRENT APPLICATION NUMBER: US/09/956,425
 ; CURRENT FILING DATE: 2001-09-19
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 6
 ; LENGTH: 489
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-956-425-6

Query Match 73.5%; Score 804.5; DB 9; Length 489;
 Best Local Similarity 76.0%; Pred. No. 1.6e-69;
 Matches 168; Conservative 16; Mismatches 24; Indels 13; Gaps 4;
 QY 1 MCNTNMSVPTDGAATTSQIPASEQETLVPRPKPLLLKLLKSVGAQKDTYTMKEVLFYL-QY 59
 DB 1 MCNTNMSVTEGASTSQIPASEQETLVPRPKPLLLKLLKSVGAQNDTYTMKSIIFIGY 60
 QY 60 IMTKRLYDEKQKHIVYCSNDLLGDLFGVPSFVSKEHRKIYTMIRNLVNVNQESSDST 119

Db 61 IMTKRLYDEKQKHIVYCSNDLLGDFGVPSVKEHKIYAMIRNVLAVSQO---DSGT 117
Qy 120 SVSENRCRLGGSDQDLVQLQBEKPSHSLVSRPSTSSRRRAISSEENDELGERQ 179
Db 118 SLSESRQPEGGDLKDPLOAPPEKPSDDLISRLSTSSRRRSISSEETDELPCRH 177
Qy 180 RKXKHSISLSFDESALCVIRIC-----CERSSSSEST 215
Db 178 RKRRR----SLSFPSLGLCELREMCSCGTSSSSSSSEST 214

RESULT 8

US-10-211-088-143
; Sequence 143, Application US/10211088
; Publication No. US20030104479A1
; GENERAL INFORMATION:
; APPLICANT: Bright, Gary R. David
; APPLICANT: Premkumar, D. David
; APPLICANT: Chen, Yih-Tai
; TITLE OF INVENTION: No. US20030104479A1el Fusion Proteins And Assays For Molecular Bi
; FILE REFERENCE: 01-1022-US
; CURRENT APPLICATION NUMBER: US/10/211,088
; CURRENT FILING DATE: 2002-10-15
; PRIOR FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2001-12-13
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 143
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Binding domain
US-10-211-088-143

Query Match 27.2%; Score 297.5; DB 14; Length 59;
Best Local Similarity 98.3%; Pred. No. 1.8e-21;
Matches 58; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 42 GAQKDTYTMKEVLVYL-QYINTKRLYDEKQKHIVYCSNDLLGDFGVPSVKEHKIY 99
Db 1 GAQKDTYTMKEVLVYLGQYINTKRLYDEKQKHIVYCSNDLLGDFGVPSVKEHKIY 59

RESULT 9

US-10-424-599-269551
; Sequence 269551, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 269551
; LENGTH: 251
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(251)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_85424C.1.pap
US-10-424-599-269551

Query Match 11.6%; Score 127; DB 12; Length 251;
Best Local Similarity 59.6%; Pred. No. 0.00051;
Matches 28; Conservative 5; Mismatches 10; Indels 4; Gaps 1;
Qy 169 ENSDELSEGRQRKHKSDSISLSFDESALCVIRICCRSSSSEST 215
Db 1 ENTDELPGERHRKRR----SLSFPSLGLCELREMCSCGSSSSSSSS 43

RESULT 10

US-10-304-095-6
; Sequence 6, Application US/10304095
; Publication No. US20030134275A1
; GENERAL INFORMATION:
; APPLICANT: Long, David M.
; APPLICANT: Metz, Anneke M.
; APPLICANT: Love, Ruschelle A.
; TITLE OF INVENTION: Telomerase Reverse Transcriptase (TERT) Genes
; FILE REFERENCE: 47714-5009-US
; CURRENT APPLICATION NUMBER: US/10/304,095
; CURRENT FILING DATE: 2002-11-26
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 2184
; TYPE: PRT
; ORGANISM: Plasmodium falciparum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (330)..(335)
; OTHER INFORMATION: Xaa at position 330 = Leu or Ile;
; OTHER INFORMATION: Xaa at position 335 = Asp or Gly.
US-10-304-095-6

Query Match 9.1%; Score 100; DB 14; Length 2184;
Best Local Similarity 23.7%; Pred. No. 4.3;
Matches 50; Conservative 33; Mismatches 82; Indels 46; Gaps 11;

Qy 1 MCNTNDSVPTDG---AVTTSQIPASEQETLVKPKLLKLLKSVGAQKDTYTMKEVLFY 56
Db 139 VCTTKNINSDNISKCTITKNIP-----LKYHINKYKYLKK-KYH 180
Qy 57 LOYIMTKRLYDEKQKHIVYCSNDLLGDFGVPSVKEHKIY-----MYRNLVVVN 110
Db 181 TMYTNDHSYG-KYLYVQCSGRILKNDFFKDKMQIQEERKKTYSNIKINSEYTNMIIN 239
Qy 111 QDESSDSTSVSENRCRLGGSDQDLVQLQBEKPS--SHLVSRPSTSSRRRAISET 168
Db 240 NNNNNNNNNNNNNVH--GFGHINNLF--SNEFPSSNISCTNTERKDKLTHIRETS 295

Query Match 11
US-10-424-599-262637
; Sequence 262637, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684

```

; SEQ ID NO 262637
; LENGTH: 695
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_79183C.1.pep
US-10-424-599-262637

Query Match      8.7%; Score 95; DB 12; Length 685;
Best Local Similarity 23.2%; Pred. No. 2.6;
Matches 51; Conservative 44; Mismatches 87; Indels 38; Gaps 11;

QY 8 VPTDGAVTTSQIPASQETTLVRPKL-----LLKLLKSVGAQKQDTYTMKEVLFYLYQYIM 61
DB 87 VKKGSVST-----DKSAMLRPATCENQAIQLKLLTLEGLQEESSGAET-----M 134
QY 62 TKRLYDEKQOHIVYCNSDNLGDL-LFGVPFSVK-----EHRKIYTMIRNLVNVNQESSD 116
DB 135 SQKDDDDQLEDADAYVESKSGNVFKRKASKKLKSPQKKIKLSTAENLSVTPKVHEKE 194
QY 117 SGTSVSENCHLEGGSDQKDLVOEL---QEEKPSSHLVSRPSTSS--RRRAISETEENS 171
DB 195 NGSSEGHIE---ENGSPFDGYIHHQLSLVKDKKKSSNLSSQPNKSSNLNKQKDKSDPTS 251
QY 172 DELSGERQR--KHKSDSISLSPDESIALC---VIREICC 206
DB 252 DETSARRKAKRWLRLELKEKEKVKIGATVL---LCC 289

RESULT 12
US-10-425-114-38125
; Sequence 38125, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingsong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; NUMBER OF SEQ ID NOS: 2003-04-28
; SEQ ID NO 38125
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB22-063-A3_FLI1.pep
US-10-425-114-38125

Query Match      8.5%; Score 93.5; DB 12; Length 257;
Best Local Similarity 23.5%; Pred. No. 0.95;
Matches 51; Conservative 41; Mismatches 86; Indels 39; Gaps 10;

QY 30 PKPLLLKLLKSVGAQK-----DTYTMKEVLFYLYQYIMTKR---LYDEKQOHIVYCSNDL 80
DB 7 PRPLRVLFVFWAREKIQIRKIDNATARTPT-----SKRRGLFKKAEELSVLCDAV 60
QY 81 -----LGLDFGVPSFVSKEHRIYTMIRNLVNVNQ-----ESSDSGTSVSE--- 123
DB 61 ALIIPSTGKLPFCSSMKVLEHNLQSNLEKLDQPSLEQLQVENS DHARMSKEIAD 120
QY 124 --NRCHLEGGSDQKDL-VOELQ-EPKSSHLVSRPSTSSRR--RAISETEENSDELSE 177
DB 121 KSHRLRQMRGEELQGLDIEELQLEKALETGLTRVITETSKDIMSISIELQKGMQLMDE 180
QY 178 ROKRHKSDSISLSPDESIALCVIREICCRSSSES 214
DB 181 NKLROQGTOLT--EENRGLQWQICNNVHAHGAESN 216
```

```

RESULT 13
US-09-833-245-1730
; Sequence 1730, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1730
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1730

Query Match      8.5%; Score 93; DB 11; Length 485;
Best Local Similarity 21.9%; Pred. No. 2.6;
Matches 51; Conservative 39; Mismatches 77; Indels 66; Gaps 12;

QY 22 SEQETLVRPKP---LLLKLLKSVGAQKQDTYTMKEVLFYLYQYIMTKRLYDEKQOHIVYCSN 78
DB 259 SDPELGVBEPPHTIMKQLLSYITKDKQTESLVEKL--CORPRTGRT--EQQRDLAYCVS 315
QY 79 -----DLGLDFGVPS-FSVKHEHRIYTMIRNLVNVNQSSSDSGTSV 121
DB 316 QLPLTERGLRKLMDNFDGDKLSDESIFSA-----FLSVVGLRRAKPEGKAI 365
QY 122 SE-----NRCHLEG--GSDQKDLVOELQEEKPSSHLVSRPSTSSRRRAISETEENSDE 173
DB 366 IDEFEQKLKRACTRGLDGIKELEIGQAGSQRAPSA---KKPSTGSRVQPLASTASDNDP 421
QY 174 LSGERQR--KRH-----KSDSISLSPDESIALCVIREICCRSSSESST 215
DB 422 VTPEPRTRTRHPNTQORASKKPKPVFSSDES-----SEEDLSAEMT 464

RESULT 14
US-09-833-245-1731
; Sequence 1731, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229, 358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256, 931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199, 384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1731
; LENGTH: 485
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1731

Query Match      8.5%; Score 93; DB 11; Length 485;
Best Local Similarity 21.9%; Pred. No. 2.6;
```

